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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/886,994	06/25/2001	Gianluca Girardi	210183US6X	7037
22850	7590 02/06/2003			
•	VAK, MCCLELLAN	EXAMINER		
1940 DUKE S ALEXANDRI	TREET A, VA 22314		NGUYEN, TAM M	
			ART UNIT	PAPER NUMBER
			1764 DATE MAILED: 02/06/2003	13

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N .	Applicant(s)	9/			
		09/886,994	GIRARDI ET AL.				
Office Action Summary		Examin r	. Art Unit				
		Tam M. Nguyen	1764				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM							
THE - External control	MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, howev ly within the statutory minin will apply and will expire SI a, cause the application to I	er, may a reply be timely filed num of thirty (30) days will be considered timel X (6) MONTHS from the mailing date of this of become ABANDONED (35 U.S.C. § 133).	y. ommunication.			
Status 1)⊠	Responsive to communication(s) filed on 27.	January 2003					
اکار≀ 2a)⊠	•	nis action is non-fin	al				
	·		-	ne merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
·	tion of Claims						
4)⊠	Claim(s) <u>1-12</u> is/are pending in the application		lla.a				
−دات	4a) Of the above claim(s) is/are withdrawn from consideration.						
·	Claim(s) is/are allowed.						
•	Claim(s) <u>1-12</u> is/are rejected.						
	Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	or election requirem	aent				
	tion Papers	or election requirem	ion.				
9)[The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	The proposed drawing correction filed on	_ is: a)∏ approved	b) disapproved by the Examin	er.			
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
-	under 35 U.S.C. §§ 119 and 120						
•	13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a))⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority document						
	2. Certified copies of the priority document	3					
*	3. Copies of the certified copies of the prio application from the International Bu See the attached detailed Office action for a list	ireau (PCT Rule 17	7.2(a)).	Stage			
14) 🔲 .) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
	a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachme	nt(s)						
2) Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) 🔲 1	nterview Summary (PTO-413) Paper No Notice of Informal Patent Application (PT Other:	_			

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DETAILED ACTION

Response to Amendment

The rejection of claims 1-4 aunder 35 USC § 112 is withdrawn by the examiner in view of the amendment filed on January 27, 2003.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Julian et al. (5,863,315).

Julian discloses a process for separating of a hydrocarbon mixture (e.g., isopentane) by using an adsorption system which comprises at least three adsorption zones that function similar to the claimed process. The adsorption zone is operated at a temperature of from 100 to 400° C and at a pressure of from 5 to 40 bars and the desorbent is an aliphatic hydrocarbon. (See col. 3, line 15 through col. 7, line 45; figures 1-9 and 13-21)

Response to Arguments

The argument that Jullian does not disclose that a plurality of columns are designated to function from a secondary adsorption device, to a primary desorption device, and to a desorption device in sequence, but discloses a process in which only one column carries out the adsorption

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which can end when or before the column is saturated and lasts three subsequent phases.

However, the argument is not persuasive because Jullian discloses an adsorption process wherein a hydrocarbon mixture feed is passed into a first adsorption zone to produce an effluent which is passed into a second adsorption zone to produce a second effluent which is passed into a desorption zone as claimed. Jullian also discloses steps of discharging effluents from the first, second, and desorption zone as claimed.

The argument that Jullian process include first pressuring, depressurizing, and second pressurizing phases, while the process of claim 1 does not use the pressure changes for adsorption and desorption is noted. However, the argument is not persuasive because the claimed process does not exclude the pressure changes in the adsorption and desorption steps.

The argument that the claimed process is operated at lower temperatures and pressures is noted. However, the argument is not persuasive because the claimed temperatures and pressures overlap with the operating temperatures and pressure of Jullian.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tam M. Nguyen whose telephone number is (703) 305-7715.

The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Glenn Caldarola can be reached on 703-308-6824. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 305-5408 for regular

communications and (703) 305-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

Tam M. Nguyen

Examiner

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Tam Nguyen/TN February 4, 2003

Walter D. Griffin

Primary Examiner